

=> d his

(FILE 'HOME' ENTERED AT 17:53:50 ON 04 JUN 2008)
FILE 'CA' ENTERED AT 17:54:33 ON 04 JUN 2008
L1 6887 S LUMINOL OR ISOLUMINOL
L2 286427 S (BLOOD OR HEMOGLOBIN OR HEMIN OR PEROXIDASE) (5A) (DETECT? OR
DETERMIN? OR MEASUR? OR MONITOR? OR FIND? OR SEARCH? OR ASSAY? OR
ANALY? OR SENSE# OR SENSING)
L3 1147 S L1 AND L2
L4 2570 S (HYDROGEN PEROXIDE OR H2O2 OR HOOH) AND L1
L5 369 S (NAOH OR KOH OR (NA OR SODIUM OR POTASSIUM OR K) (1A) (OH OR
HYDROXIDE)) AND L1
L6 170 S L4 AND L5
L7 166 S L6 AND (CHEMILUM? OR LUMINESC? OR EMISSION OR EMITTED OR EMITTING)
L8 21 S L2 AND L6
L9 146 S L7 NOT L8
L10 11 S L9 AND (MM OR MMOL?)
L11 32 S L8, L10

=> d l11 1-32 bib, ab, it

L11 ANSWER 6 OF 32 CA COPYRIGHT 2008 ACS on STN
AN 139:347002 CA
TI Composition and process for detecting and locating traces of blood
IN Lefebvre Despeaux, Jean Marc; Blum, Loic
PA Roc Import, Monaco
SO Fr. Demande, 29 pp.
PI FR 2839155 A1 20031031 FR 2002-5230 20020425
US 20050176082 A1 20050811 US 2004-509326 20041006
PRAI FR 2002-5230 A 20020425
AB The title compn. comprises luminol or its deriv., hydrogen peroxide and
NaOH, dild. in a solvent, preferably water. The compn. is usable in
forensics or for detecting traces of game blood during hunt.

L11 ANSWER 9 OF 32 CA COPYRIGHT 2008 ACS on STN
AN 137:72183 CA
TI On-line determination of transition metal ions by low-pressure ion
chromatography with chemiluminescence detection
AU Zhou, Guang-Ming; Liu, Ling; Yang, Guang-Ming; Zhang, Xin-Shen
CS School of Chemistry and Chemical Engineering, Southwest Normal
University, Chungking, 400715, Peop. Rep. China
SO Sepu (2002), 20(3), 265-268
LA Chinese
AB The sepn. and detn. of five transitional metal ions, Co²⁺, Cu²⁺, Mn²⁺,
Fe²⁺ and Cr³⁺ by low-pressure ion chromatog. with chemiluminescence
detection were investigated for the first time. The sepn. was carried
out on a C3 ion chromatog. column by using a step gradient elution with
the mobile phase of oxalic acid-citric acid soln. The five
transitional-metal ions could be sepd. simultaneously. Luminol-H₂O₂-Mn²⁺
system was used as the flow injection chemiluminescence anal. system.
Under the optimum conditions with 0.5 mmol L⁻¹ luminol, 0.05 mol L⁻¹
H₂O₂ and 0.020 mol L⁻¹ NaOH, the linear ranges (mg L⁻¹) for Co²⁺, Cu²⁺,
Mn²⁺, Fe²⁺ and Cr³⁺ were 0.001 - 0.1, 0.1 - 6, 0.06 - 4, 0.03 - 5 and

0.025 - 1 resp.; the detection limit ($\mu\text{g L}^{-1}$) for Co^{2+} , Cu^{2+} , Mn^{2+} , Fe^{2+} and Cr^{3+} were 0.85, 85, 42, 21 and 20. The present method is simple, rapid, accurate and has been successfully applied to detect Co^{2+} in vitamin B12 and Co^{2+} , Cu^{2+} , Mn^{2+} , Fe^{2+} and Cr^{3+} in human hair sample with satisfactory results.

L11 ANSWER 17 OF 32 CA COPYRIGHT 2008 ACS on STN

AN 119:43857 CA

OREF 119:7863a,7866a

TI Chemiluminescence determination of horseradish peroxidase and its conjugates with several systems

AU Yang, Xiucen; Wu, Liping; Deng, Anping; Chen, Dajing

CS Res. Lab. Appl. Chem., West China Univ. Med. Sci., Chengdu, 610041, Peop. Rep. China

SO Analytical Letters (1993), 26(6), 1065-71

AB Four systems used for chemiluminescence detn. of horseradish peroxidase [luminol- H_2O_2 (NaOH), pyrogallol- H_2O_2 (pH 6.5), luminol- H_2O_2 -para-iodophenol (pH 8.5), and luminol- H_2O_2 -para-hydroxybiphenyl (pH 8.5)] were studied. The exptl. conditions were optimized and linear dynamic ranges and limits of detection detd. The HRP conjugates with different antibodies were also detd., on the basis of which methods for detn. of insulin, gentamycin, and Salmonella anatis by chemiluminescent immunoassay were established.

=> log y

STN INTERNATIONAL LOGOFF AT 18:08:43 ON 04 JUN 2008